DESIGN DESIGNATION

RTE. BB (PHELPS CO.) A.A.D.T. - 2023 = 4108V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

RTE F (PHELPS CO) A.A.D.T. - 2023 = 1198 V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

RTE. H (CRAWFORD CO.) A.A.D.T. - 2023 = 2190 TO RTE. MM,767 AFTER RTE. MM

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

RTE E (CRAWFORD CO) A.A.D.T. - 2023 = 466V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

RTE. E (MARIES CO.) A.A.D.T. - 2023 = 620 TO RTE. Y, 2357 TO I-44, 8860 TO RTE. 63 V = 55 M.P.H. FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO NEW RIGHT OF WAY

CONVENTIONAL SYMBOLS (USED IN PLANS)

, · ·	- 1	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000 0000 0000 101 0000	····
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FO OTV UTV OT UT OE UE SS G W	-UTV- -OT- -UT- -OE-
MANHOLE	DYP.	€
FIRE HYDRANT	w _v	3
WATER VALVE	wn4	€
WATER METER	D)
DROP INLET		
DITCH BLOCK	=	=
GROUND MOUNTED SIGN	SIGN	_
LIGHT POLE	I	
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED	/
BENCHMARK	8)

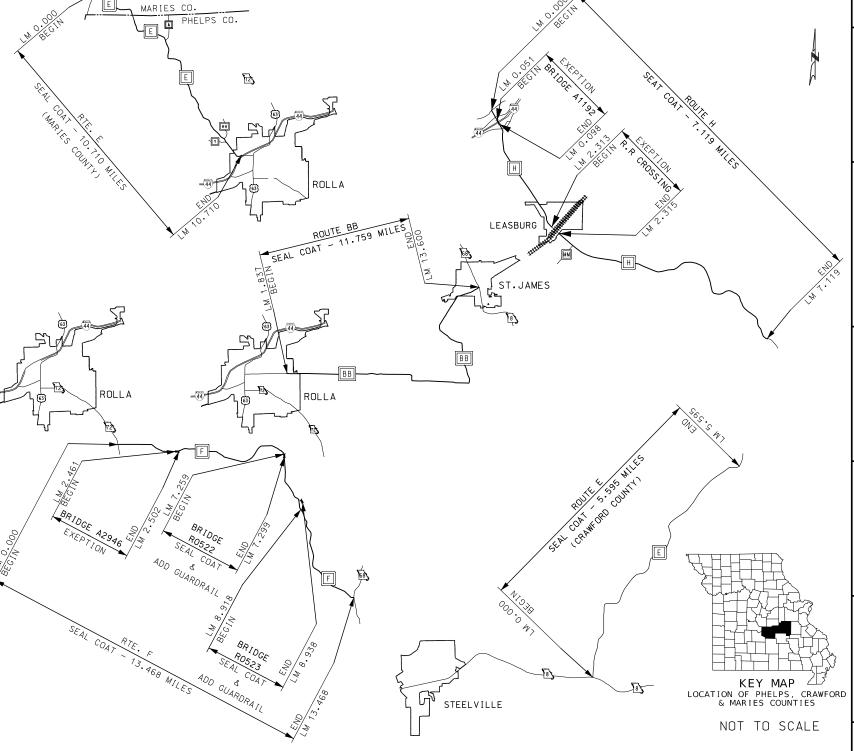
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

PHELPS, CRAWFORD & MARIES COUNTIES



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (6 SHEETS)	3
PLAN-PROFILE (PP)	4 - 6
TRAFFIC CONTROL (TC)	7 - 14
BRIDGE R05221	1 - 5
BRIDGE R05231	1 - 5

LENGTH OF PROJECT RTE BB (PHELPS CO.)

BEGINNING OF PROJECT LOG MILE 1.837 END OF PROJECT LOG MILE 13.600

APPARENT LENGTH 11.763 MILES

EQUATIONS AND EXCEPTIONS: NONE

LENGTH OF PROJECT RTE. F (PHELPS CO.)

BEGINNING OF PROJECT LOG MILE 0.000 END OF PROJECT LOG MILE 13.468

APPARENT LENGTH 13.468 MILES

EQUATIONS AND EXCEPTIONS:

BRIDGE A2946 (LM 2.461 TO LM 2.502) -216.5 FT

LENGTH OF PROJECT RTE. H (CRAWFORD CO.)

BEGINNING OF PROJECT LOG MILE 0.000 END OF PROJECT LOG MILE 7.119 APPARENT LENGTH 7.119 MILES EQUATIONS AND EXCEPTIONS:

BRIDGE A1192 (LM 0.051 TO LM 0.098) -248 FT R.R CROSSING (LM 2.313 TO LM 2.315) -10 FT

LENGTH OF PROJECT RTE. E (CRAWFORD CO.)

BEGINNING OF PROJECT END OF PROJECT

LOG MILE 0.000 LOG MILE 5.595

APPARENT LENGTH 5.595 MILES

EQUATIONS AND EXCEPTIONS: NONE

LENGTH OF PROJECT RTE. E (MARIES CO.)

BEGINNING OF PROJECT LOG MILE 0.000 END OF PROJECT LOG MILE 10.710

10.710 MILES APPARENT LENGTH EQUATIONS AND EXCEPTIONS: NONE

-474.5 FEET TOTAL CORRECTIONS NET LENGTH OF PROJECT 256,423.90 FEET STATE LENGTH 48.565 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES

0 ACRES



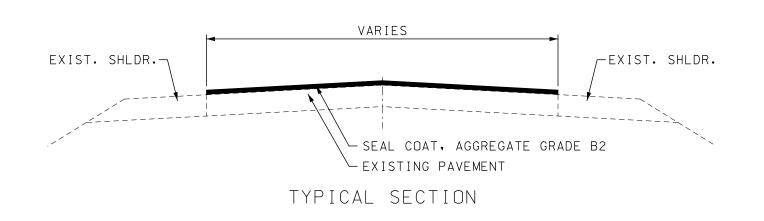
11/20/2023 VAR I OUS MO CD 1

VARIOUS J5P3528 CONTRACT ID

PROJECT NO









11/20/2023

CD

VARIOUS J5P3528

ROUTE F (PHFLPS COUNTY)

LM 0.000 TO LM 0.027 (WIDTH VARIES/BEGIN AT RTE. 72)

LM 0.027 TO LM 0.121 (40' WIDTH)

LM 0.121 TO LM 0.141 (24' WIDTH)

LM 0.141 TO LM 2.461 (22' WIDTH)

LM 2.461 TO LM 2.502 (EXCEPTION: BRIDGE A2946)

LM 2.502 TO LM 7.259 (22' WIDTH)

LM 7.259 TO LM 7.299 (BRIDGE R0522)

LM 7.299 TO LM 8.918 (22' WIDTH)

LM 8.918 TO LM 8.938 (BRIDGE R0523)

LM 8.938 TO LM 13.459 (22' WIDTH)

LM 13.459 TO LM 13.468 (WIDTH VARIES/END AT RTE. 68)

ROUTE H (CRAWFORD COUNTY)

LM 0.000 TO LM 0.009 (WIDTH VARIES/BEGIN AT N. OUTER RD.)

LM 0.009 TO LM 0.051 (22' WIDTH)

LM 0.051 TO LM 0.098 (22' WIDTH)/EXCEPTION: BRIDGE A1192)

LM 0.098 TO LM 2.313 (22' WIDTH)

LM 2.313 TO LM 2.315 (EXCEPTION: RR. CROSSING)

LM 2.315 TO LM 7.119 (22' WIDTH/END AT SME)

ROUTE E (CRAWFORD COUNTY)

LM 0.000 TO LM 0.012 (WIDTH VARIES/(BEGIN AT RTE. 8) LM 0.012 TO LM 5.595 (21' WIDTH)/(END AT SME)

> 0.28 GAL/YD^2 BINDER APPLICATION RATE

ROUTE BB (PHELPS COUNTY)

LM 1.837 TO LM 2.200 (22' WIDTH/BEGIN SEAL COAT)

LM 2.200 TO LM 12.674 (24' WIDTH)

LM 12.674 TO LM 13.505 (22' WIDTH)

LM 13.505 TO LM 13.511 (EXCEPTIION: MERAMEC ST.)

LM 13.511 TO LM 13.596 (22' WIDTH)

LM 13.596 TO LM 13.600 (WIDTH VARIES/END AT RTE. 8/68)

ROUTE E (MARIES/PHELPS COUNTY)

LM 0.000 TO LM 3.210 (21' WIDTH/BEGIN AT SME/MARIES COUNTY)

LM 3.210 TO LM 10.559 (22' WIDTH)

LM 10.559 TO LM 10.710 (30' WIDTH/END AT ROUNDABOUT/PHELPS COUNTY)

NOT TO SCALE

TYPICAL SECTIONS SHEET 1 OF 1

			SE	AL COAT, GR	ADE B2 (RTE.	BB / PHELPS)		
						SEAL COAT	EMULSIFIED	
						AGGREGATE	ASPHALT	
LOG	LOG		LENGTH	WIDTH	AREA	GRADE B2	SEAL COAT	
MILE	MILE	LOCATION	(FT)	(FT)	(SF)	(SY)	(GAL)	REMARKS
1.837	2.200	RTE. BB	1916.64	22	42166.1	4685.1	1311.8	BEGIN SEAL COAT
2.200	12.674	RTE. BB	55302.72	24	1327265.3	147473.9	41292.7	
12.674	13.505	RTE. BB	4387.68	22	96529.0	10725.4	3003.1	
13.505	13.511	RTE. BB	31.68					EXCEPTION: MERAMEC ST.
13.511	13.596	RTE, BB	448.80	22	9873.6	1097.1	307.2	
13.596	13.600	RTE. BB	21.12	VARIES	2035.4	226.2	63.3	END AT ROUTE 8/68
					SUB-TOTAL	164207.7	45978.1	
					USE	164208	45978	

			S	EAL COAT, GF	RADE B2 (RTE	F / PHELPS)		
						SEAL COAT	EMULSIFIED	
						AGGREGATE	ASPHALT	
LOG	LOG		LENGTH	WIDTH	AREA	GRADE B2	SEAL COAT	
MILE	MILE	LOCATION	(FT)	(FT)	(SF)	(SY)	(GAL)	REMARKS
0.000	0.027	RTE. F	142.56	VARIES	10226.8	1136.3	318.2	BEGIN AT ROUTE 72
0.021	0.121	RTE. F	528.00	40	21120.0	2346.7	657.1	
0.121	0.141	RTE. F	105.60	24	2534.4	281.6	78.8	
0.141	2.461	RTE. F	12249.60	22	269491.2	29943.5	8384.2	
2.461	2.502	RTE. F						EXCEPTION: BRIDGE A2946
2.502	7.259	RTE. F	25116.96	22	552573.1	61397.0	17191.2	
7.259	7.299	RTE. F	211.20	22	4646.4	516.3	144.6	BRIDGE R0522
7.299	8.918	RTE. F	8548.32	22	188063.0	20895.9	5850.9	
8.918	8.938	RTE. F	105.60	22	2323.2	258.1	72.3	BRIDGE R0523
8.938	13.459	RTE. F	23870.88	22	525159.4	58351.0	16338.3	
13.459	13.468	RTE. F	47.52	VARIES	2512.0	279.1	78.1	END AT ROUTE 68
					SUB-TOTAL	175405.5	49113.7	
					USE	175406	49114	

			SEAL	COAT, GRADE	B2 (RTE. E	/ PHELPS/MARIE	S)	
LOG	LOG		LENGTH	WIDTH	AREA	SEAL COAT AGGREGATE GRADE B2	EMULSIFIED ASPHALT SEAL COAT	
MILE	MILE	LOCATION	(FT)	(FT)	(SF)	(SY)	(GAL)	REMARKS
0.000	3.210	RTE. E	16948.80	21	355924.8	39547.2	11073.2	BEGIN AT SME/MARIES CO.
3.210	10.559	RTE. E	38802.72	22	853659.8	94851.1	26558.3	
10.559	10.710	RTE. E	797.28	30	23918.4	2657.6	744.1	END AT ROUNDABOUT/PHELPS CO.
					SUB-TOTAL	137055.9	38375.6	
					USE	137056	38376	

			SE	AL COAT, GR	ADE B2 (RTE.	H / CRAWFORD)		
1.00	1.00		LENGTH	WIDTH	ADEA	SEAL COAT AGGREGATE	EMULSIFIED ASPHALT	
LOG	LOG		LENGTH	WIDTH	AREA	GRADE B2	SEAL COAT	
MILE	MILE	LOCATION	(FT)	(FT)	(SF)	(SY)	(GAL)	REMARKS
0.000	0.009	RTE. H	50	VARIES	3569.3	396.6	111.0	BEGIN AT N. OUTER RD.
0.009	0.051	RTE. H	221.76	45	9979.2	1108.8	310.5	
0.051	0.098	RTE. H	248.16	22				EXCEPTION: BRIDGE A1192
0.098	0.134	RTE. H	190.08	30	5702.4	633.6	177.4	
0.134	2.313	RTE. H	11505.12	22	253112.6	28123.6	7874.6	
2.313	2.315	RTE. H	10.56					EXEPTION: RR. CROSSING
2.315	7.119	RTE. H	25365.12	22	558032.6	62003.6	17361.0	END AT SME
			·		SUB-TOTAL	92266.2	25834.5	
					USF	92266	25835	

			SE	AL COAT, GRA	DE B2 (RTE.	E / CRAWFORD)		
						SEAL COAT AGGREGATE	EMULSIFIED ASPHALT	
LOG	LOG		LENGTH	WIDTH	AREA	GRADE B2	SEAL COAT	
MILE	MILE	LOCATION	(FT)	(FT)	(SF)	(SY)	(GAL)	REMARKS
0.000	0.012	RTE. E	63.36	VARIES	3091.8	343.5	96.2	BEGIN ROUTE / CRAWFORD COUNT
0.012	5.595	RTE. E	29478.24	21	619043.0	68782.6	19259.1	END ROUTE / CRAWFORD COUNTY
					SUB-TOTAL	69126.1	19355.3	
					USE	69126	19355	



VARIOUS

JOB NO.
J5P3528

CONTRACT ID.

PROJECT NO.



SUMMARY OF QUANTITIES SHEET 1 OF 6

		PAVEMENT	MARKING - R	OUTE BB (PHE	LPS COUNTY)	
			WATERBOR	RNE PAINT, TYPE	P BEADS	
			4" INT.	4" SOLID	4" SOLID	+
1.00	1.00	LENCTH	YELLOW			
LOG	LOG	LENGTH		YELLOW	WHITE	
MILE	MILE	(FT)	L.F.	L.F.	L.F.	REMARKS
1.837	2.440	3,183.8		6,367.6	6,367.6	NO PASS / BEGIN PROJEC
2.440	2.541	533.3	133.3	533.3	1,066.6	NO PASS / EB
2.541	2.940	2,106.7		4,213.4	4,213.4	NO PASS
2.940	3.100	844.8	211.2	844.8	1,689.6	NO PASS / WB
3.100	3.240	739.2	184.8		1,478.4	
3.240	3.380	739.2	184.8	739.2	1,478.4	NO PASS / EB
3.380	3.840	2,428.8		4,857.6	4,857.6	NO PASS
3.840	4.099	1,367.5	341.9	1,367.5	2,735.0	NO PASS / EB
4.099	4.338	1,261.9		2,523.8	2,523.8	NO PASS
4.338	4.438	528.0	132.0	528.0	1,056.0	NO PASS / WB
4.438	4.560	644.2	161.1	644.2	1,288.4	NO PASS / EB
4.560	5.258	3,685.4		7,370.8	7,370.8	NO PASS
5.258	5.338	422.4	105.6	422.4	844.8	NO PASS / WB
5.338	5.377	205.9	51.5		411.8	
5.377	5.497	633.6	158.4	633.6	1,267.2	NO PASS / EB
5.497	5.597	528.0	10011	1,056.0	1,056.0	NO PASS
5.597	5.677	422.4	105.6	422.4	844.8	NO PASS / WB
5.677	5.737	316.8	103.0	633.6	633.6	NO PASS
5.737	5.837	528.0	132.0	528.0	1,056.0	NO PASS / EB
5.837	7.354	8,009.8	132.0	16,019.6	16,019.6	NO PASS
7.354	7.435	427.7	106.9	427.7	855.4	NO PASS / WB
7.435	7.633	1,045.4	100.3	2,090.8		NO PASS
			400.4		2,090.8	
7.633	7.774	744.5	186.1	744.5	1,489.0	NO PASS / WB
7.774	7.913	733.9	183.5	733.9	1,467.8	NO PASS / EB
7.913	8.113	1,056.0	470.0	2,112.0	2,112.0	NO PASS
8.113	8.213	528.0	132.0	528.0	1,056.0	NO PASS / WB
8.213	9.495	6,769.0		13,538.0	13,538.0	NO PASS
9.495	9.635	739.2	184.8	739.2	1,478.4	NO PASS / WB
9.635	9.794	839.5	209.9	839.5	1,679.0	NO PASS / EB
9.794	9.875	427.7		855.4	855.4	NO PASS
9.875	10.015	739.2	184.8	739.2	1,478.4	NO PASS / WB
10.015	10.155	739.2	184.8	739.2	1,478.4	NO PASS / EB
10.155	10.437	1,489.0		2,978.0	2,978.0	NO PASS
10.437	10.536	522.7	130.7	522.7	1,045.4	NO PASS / WB
10.536	10.576	211.2		422.4	422.4	NO PASS
10.576	10.736	844.8	211.2	844.8	1,689.6	NO PASS / EB
10.736	10.876	739.2		1,478.4	1,478.4	NO PASS
10.876	10.956	422.4	105.6	422.4	844.8	NO PASS / WB
10.956	11.036	422.4		844.8	844.8	NO PASS
11.036	11.136	528.0	132.0	528.0	1,056.0	NO PASS / EB
11.136	11.734	3,157.4		6,314.8	6,314.8	NO PASS
11.734	11.894	844.8	211.2	844.8	1,689.6	NO PASS / WB
11.894	12.013	628.3	157.1		1,256.6	
12.013	12.173	844.8	211.2	844.8	1,689.6	NO PASS / EB
12.173	13.497	6,990.7	21111	13,981.4	13,981.4	NO PASS
13.505	13.511	31.7		13,30111	10,30111	EXCEPTION: MERAMEC ST
13.511	13.596	448.8	112.2	 		END PROJECT
13.311	13.330	770.0	112.2			LIAD I MODECT
		SUB-TOTAL	4546.2	103820.5	123129.4	

			PREFO	PREFORMED THERMOPLASTIC					
			CROSSWALKS	STOP BARS	R/R CROSSING	_			
LOG	LOG		WHITE	WHITE	SYMBOLS				
MILE	MILE	LOCATION	L.F.	L.F.	EA.	REMARKS			
10.578	10.579	RTE. E (MARIES/PHELPS)	60						
10.708	10.710	RTE. E (MARIES/PHELPS)	60						
2.251		RTE. H (CRAWFORD)				R/R CROSSING / E			
2.254	2.258	RTE. H (CRAWFORD)			1	R/R CROSSING / E			
2.261		RTE, H (CRAWFORD)				R/R CROSSING / E			
2.310		RTE, H (CRAWFORD)		12		R/R CROSSING / E			
2.317		RTE, H (CRAWFORD)		12		R/R CROSSING / W			
2.362		RTE. H (CRAWFORD)				R/R CROSSING / W			
2.365	2.369	RTE. H (CRAWFORD)			1	R/R CROSSING / W			
2.372		RTE. H (CRAWFORD)				R/R CROSSING / W			
		SUB-TOTAL	120	24	2				
		USE	14	14	2				

TE: AL	L PAVEMEN	T MARKINGS TO	MATCH EXISTING, LOCAT	E BEFORE MIL	LING OR RESURFA	ACING.				
				Р	AVEMENT MARK	ING TOTALS				
			WATER	BORNE PAINT,	TYPE P BEADS		PREFO	DRMED THERMOPL	ASTIC	
LOG	LOG	LENGTH		4″ INT. YELLOW	4" SOLID YELLOW	4" SOLID WHITE	CROSSWALKS 6" SOLID WHITE	STOP BARS 24" SOLID WHITE	R/R CROSSING SYMBOLS WHITE	
1ILE	MILE	(FT)	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	REMARKS
.000	5,595	29541.600	RTE. E (CRAWFORD)	893.7	55508.7	59083.2				
.000	7.119	37588.320	RTE. H (CRAWFORD)	1698.9	66105.8	73054.2		24	2	
837	13.596	62087.520	RTE, BB (PHELPS)	4546.2	103820.5	123129.4				
.007	13.468	71074.080	RTE. F (PHELPS)	6762.6	117031.1	142042.4				
.000	10.710	56548.800	RTE. E (MARIES/PHELPS)	1160.3	107807.1	112596.0	120			
			TOTAL	15061.7	450273.2	509905.2	120	24	2	
			USE	465	335	509905	120	24	2	

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTROMICALLY,

DATE PREPARED

11 / 20 / 20 2 3

ROUTE STATE VARIOUS MO

DISTRICT SHEET NO.

CD 3 COUNTY
VARIOUS
JOB NO.
J5P3528
CONTRACT ID. PROJECT NO.

SUMMARY OF QUANTITIES SHEET 2 OF 6

			WATERBOR	RNE PAINT, TYPE	P BEADS	PREFORMED THERMOPLASTIC	
			4" INT.	4" SOLID	4" SOLID	6" SOLID	
LOG	LOG	LENGTH	YELLOW	YELLOW	WHITE	WHITE	
MILE	MILE	(FT)	L.F.	L.F.	L.F.	L.F.	REMARKS
0.000	2.536	13390.08		26780.2	26780.2		NO PASS
2.536	2.716	950.40	237.6	950.4	1900.8		NO PASS / NB
2.716	2.835	628.32	157.1		1256.6		
2.835	2,996	850.08	212.5	850.1	1700.2		NO PASS / SB
2.996	3.204	1098.24		2196.5	2196.5		NO PASS
3.204	3.237	174.24		348.5	174.2		NO PASS / RTE. A
3.237	3.319	432.96		865.9	865.9		NO PASS
3.319	3.460	744.48	186.1	744.5	1489.0		NO PASS / NB
3.460	3.520	316.80		633.6	633.6		NO PASS
3.520	3,620	528.00	132.0	528.0	1056.0		NO PASS / SB
3.620	6.642	15956.16		31912.3	31912.3		NO PASS
6.642	6.721	417.12	104.3	417.1	834.2		NO PASS / NB
6.721	6.781	316.80		633.6	633.6		NO PASS
6.781	6.880	522.72	130.7	522.7	1045.4		NO PASS / SB
6.880	9.557	14134.56		28269.1	28269.1		NO PASS
9.557	9.583	137.28		274.6	137.3		NO PASS / RTE. HH
9.583	9.675	485.76		971.5	971.5		NO PASS
9.675	9.707	168.96		337.9	169.0		NO PASS / RTE. Y
9.707	10.339	3336.96		6673.9	6673.9		NO PASS
10.339	10.359	105.60		211.2	211.2		NO PASS / VISTA DR.
10.359	10.559	1056.00		2112.0	2112.0		NO PASS
10.559	10.575	84.48		169.0	169.0		NO PASS / FRATERNITY DR.
10.575	10.578	15.84		31.7	31.7		NO PASS
10.578	10.579	5.28				60	CROSSWALK
10.579	10.707	675.84		1351.7	1351.7		NO PASS
10.707	10.708	5.28				60	CROSSWALK
10.708	10.710	10.56		21.1	21.1		NO PASS / END PROJECT
		SUB-TOTAL	1160.3	107807.1	112596.0	120.0	

					GUARDRAII	_			
LOG	LOG		BRIDGE ANCHOR SECTION	GUARDRAIL TYPE A	BRIDGE END ANCHOR	TYPE A CRASHWORTHY END TERMINAL MASH	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR / NO CURB)	SHAPING SLOPES CLASS III AREA	
MILE	MILE	LOCATION	EA	LF	EA	EA	EA	(100 FT.)	REMARKS
	7.259	ROUTE F	1.0	12.5	1.0			1.5	BRIDGE RO522 / NE CORNER
7.242	7.259	ROUTE F				1.0	1.0	2.3	BRIDGE RO522 / NW CORNER
7.299	7.316	ROUTE F				1.0	1.0	2.3	BRIDGE RO522 / SE CORNER
7.299	7.316	ROUTE F				1.0	1.0	2.3	BRIDGE R0522 / SW CORNER
8.901	8.918	ROUTE F				1.0	1.0	2.3	BRIDGE RO523 / NE CORNEF
8.901	8.918	ROUTE F				1.0	1.0	2.3	BRIDGE RO523 / NW CORNER
8.938	8.955	ROUTE F				1.0	1.0	2.3	BRIDGE RO523 / SE CORNER
8.938	8.955	ROUTE F				1.0	1.0	2.3	BRIDGE RO523 / SW CORNER
		TOTAL	1	12.5	1	7	7	18	
UARDRAII	TO BE PI	ACED IN EXISTIN	 	Y LOCATION IN T	 HE FIELD BEFORE I	 NSTALLATION.			

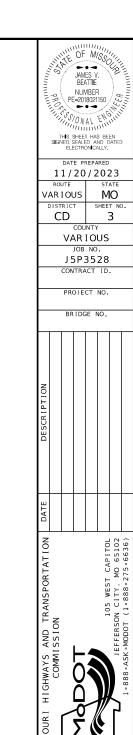


WATERBORNE PAINT, TYPE P BEADS						
						_
			4" INT.	4" SOLID	4" SOLID	
LOG	LOG	LENGTH	YELLOW	YELLOW	WHITE	
MILE	MILE	(FT)	L.F.	L.F.	L.F.	REMARKS
0.007	0.141	707.5		1,415.0	1,415.0	NO PASS / BEGIN PROJECT
0.141	0.301	844.8	211.2	844.8	1,689.6	NO PASS / WB
0.301	0.361 0.519	316.8 834.2	79.2	074.2	633.6	NO DACE / ED
0.519	0.519	422.4	208.6	834.2 422.4	1,668.4 844.8	NO PASS / EB
0.599	0.958	1,895.5	103.0	3,791.0	3,791.0	NO PASS
0.958	1.118	844.8	211.2	844.8	1,689.6	NO PASS / WB
1.118	1.279	850.1	212.5	850.1	1,700.2	NO PASS / EB
1.279	1.438	839.5		1,679.0	1,679.0	NO PASS
1.438	1.538	528.0	132.0	528.0	1,056.0	NO PASS / WB
1.538	1.599	322.1		644.2	644.2	NO PASS
1.599	1.679	422.4	105.6	422.4	844.8	NO PASS / EB
1.679	1.799	633.6		1,267.2	1,267.2	NO PASS
1.799	1.940	744.5	186.1	744.5	1,489.0	NO PASS / WB
1.940	1.999	311.5	77.9	F77 7	623.0	NO DACC / ED
1.999	2.100	533.3	133.3	533.3 2,745.6	1,066.6	NO PASS / EB
2.360	2.461	533.3	133.3	533.3	1,066.6	NO PASS / WB
2.461	2.502	216.5	100.0	433.0	433.0	NO PASS / BRIDGE A2946
2.502	2.521	100.3		200.6	200.6	NO PASS
2.521	2.640	628.3	157.1	628.3	1,256.6	NO PASS / WB
2.640	4.377	9,171.4		18,342.8	18,342.8	NO PASS
4.377	4.517	739.2	184.8	739.2	1,478.4	NO PASS / WB
4.517	4.596	417.1	104.3	417.1	834.2	NO PASS / EB
4.596	4.617	110.9		221.8	221.8	NO PASS
4.617	4.757	739.2	184.8	739.2	1,478.4	NO PASS / WB
4.757	4.796	205.9	51.5		411.8	
4.796	4.917	638.9	159.7	638.9	1,277.8	NO PASS / EB
4.914 5.638	5.638 5.757	3,822,7 628,3	955.7 157.1	7,645.4 628.3	7,645.4 1,256.6	NO PASS / EB
5.757	6.076	1,684.3	131.1	3,368.6	3,368.6	NO PASS
6.076	6.196	633.6	158.4	633.6	1,267.2	NO PASS / WB
6.196	6.215	100.3	10011	200.6	200.6	NO PASS
6.216	6.295	417.1	104.3	417.1	834.2	NO PASS / EB
6.295	6.435	739.2		1,478.4	1,478.4	NO PASS
6.435	6.576	744.5	186.1	744.5	1,489.0	NO PASS / WB
6.576	6.596	105.6		211.2	211.2	NO PASS
6.596	6.676	422.4	105.6	422.4	844.8	NO PASS / EB
6.676	6.898	1,172.2	044.0	2,344.4	2.344.4	NO PASS
6.898	7.058	844.8	211.2	844.8	1,689.6	NO PASS / WB
7.058	7.138 7.219	422.4 427.7	105.6	427.7	844.8 855.4	NO PASS / EB
7.219	7.259	211.2	100.3	427.1	422.4	NO PASS
7.259	7.299	211.2	52.8	211.2	422.4	NO PASS / WB / BRIDGE R0522
7.299	7.398	522.7	130.7	522.7	1.045.4	NO PASS / WB
7.398	7.498	528.0	132.0		1,056.0	
7.498	7.597	522.7	130.7	522.7	1,045.4	NO PASS / EB
7.597	8.918	6,974.9		13,949.8	13,949.8	NO PASS
8.918	8.938	105.6		211.2	211.2	NO PASS / BRIDGE R0523
8.938	10.816	9,915.8	100 7	19,831.6	19,831.6	NO PASS
10.816	10.898	433.0	108.3	433.0 839.5	866.0	NO PASS / WB
10.898	11.057 11.896	839.5 4,429.9	203.3	8,859.8	1,679.0 8,859.8	NO PASS / EB
11.896	12.055	839.5	209.9	839.5	1,679.0	NO PASS / EB
12.055	12.033	739.2	503.3	1,478.4	1,478.4	NO PASS
12.195	12.276	427.7	106.9	427.7	855.4	NO PASS / WB
12.276	12.695	2,212.3		4,424.6	4,424.6	NO PASS
12.695	12.774	417.1	104.3	417.1	834.2	NO PASS / WB
12.774	12.814	211.2		422.4	422.4	NO PASS
12.814	12.914	528.0	132.0	528.0	1,056.0	NO PASS / EB
12.914	13.456	2,861.8	715.5	2,861.8	5,723.6	NO PASS
13.456	13.468	63.4				END PROJECT
		SUB-TOTAL	6762.6	117031.1	142042.4	
		JUD = LLLI AL	D / D / • D	1 1 1 1 1 1 1 1 1 1	14/04/•4	1

HIGHWAYS AND TRANSPORTATION	DATE	DESCRIPTION					V,		\(\frac{1}{2}\)	WITHING.
COMMISSION							IST	RO	SIGN	Print's
			BR		JS		RIC D		HIS :	ATE
			IDO	DJE	јов 5 Р :	cou \R	T	20	O N O N SHEE SEALE	JAM BE/ NUM
			E 1		_{NO} 35		S		AL THA ED A ONIC	ES VATTIE
105 WEST CAPITOL			NO.	ID NO.	28		HEE	2 0 2	S BE ND D	7
JEFFERSON CITY, MO 65102			1	•			T NO 3		EN DATED	11/10/10/10
1-888-ASK-MODOT (1-888-275-6636)).		1111	HILLIAMIN

			WATERBOR	RNE PAINT, TYPE	P BEADS	PREFORMED TH	HERMOPLASTIC	
.OG	LOG	LENGTH	4″ INT. YELLOW	4" SOLID YELLOW	4" SOLID WHITE	24" SOLID WHITE STOP BAR	RAILROAD CROSSING SYMBOL	
ILE	MILE	(FT)	L.F.	L.F.	L.F.	L.F.	EA.	REMARKS
.000	0.040	211.20		422.4				NO PASS / BEGIN PROJECT
040	0.051	58.08		116.2	116.2			NO PASS
.051	0.098	248.16		496.3	496.3			NO PASS / BRIDGE A1192
.098	0.116	95.04		190.1	190.1			NO PASS
.116	0.132	84.48		169.0	169.0			NO PASS / ON & OFF RAMP / EB
.132	0.198	348.48		697.0	697.0			NO PASS
.198	0.206	42.24		84.5	42.2			NO PASS
206	0.227	110.88		221.8				NO PASS / OLD RTE, 66
227	0.695	2471.04		4942.1	4942.1			NO PASS
695	0.815	633.60	158.4	633.6	1267.2			NO PASS / WB
815	0.875	316.80	79.2		633.6			
875	1.015	739.20	184.8	739.2	1478.4			NO PASS / EB
015	2.261	6578.88		13157.8	13157.8			NO PASS
261	2.317	295.68						EXCEPTION: R. R. CROSSING
317	2.331	73.92		147.8	147.84			NO PASS
. 331	2.510	945.12	236.28		1890.24			NO PASS / WB
510	2.590	422.40	105.6					
590	2.758	887.04	221.8	887.0	1774.1			NO PASS / EB
758	3.217	2423.52		4847.0	4847.0			NO PASS
217	3.318	533.28	133.32	533.3	1066.56			NO PASS / WB
318	3.418	528.00		1056.0	1056.0			NO PASS
418	3.758	1795.20	448.8	1795.2	3590.4			NO PASS / WB
758	3.819	322.08	470.7	644.2	644.2			NO PASS
819	3.918	522.72	130.7	522.7	1045.4			NO PASS / EB
918	7.119	16901.28		33802.6	33802.56			NO PASS / END PROJECT
251								RR. CROSSING / STOP BAR / EB
254	2.258						1	RR. CROSSING / SYMBOL / EB
261								RR. CROSSING / STOP BAR / EB
310						12		RR. CROSSING / STOP BAR / EB
317						12		RR. CROSSING / STOP BAR / WB
362								RR. CROSSING / STOP BAR / WB
365	2.369						1	RR. CROSSING / SYMBOL / WB
372								RR. CROSSING / STOP BAR / WB
	 	SUB-TOTAL	1698.9	66105.8	73054.2	24	2	

PAVEMENT MARKING - ROUTE E (CRAWFORD COUNTY)								
			WATERBOR	NE PAINT, TYPE	P BEADS			
			4" INT.	4" SOLID	4" SOLID			
LOG	LOG	LENGTH	YELLOW	YELLOW	WHITE			
MILE	MILE	(FT)	L.F.	L.F.	L.F.	REMARKS		
0.000	0.161	850.08	212.5	850.1	1700.2	NO PASS / SB / BEGIN PROJECT		
0.161	0.222	322.08		644.2	644.2	NO PASS		
0.222	0.321	522.72	130.7	522.7	1045.4	NO PASS / SB		
0.321	1.221	4752.00		9504.0	9504.0	NO PASS		
1.221	1.340	628.32	157.1	628.3	1256.6	NO PASS / NB		
1.340	1.961	3278.88		6557.8	6557.8	NO PASS		
1.961	2.040	417.12	104.3	417.1	834.2	NO PASS / SB		
2.040	2.121	427.68		855.4	855.4	NO PASS		
2.121	2.220	522.72	130.7	522.7	1045.4	NO PASS / NB		
2.220	3.982	9303.36		18606.7	18606.7	NO PASS		
3.982	4.102	633.60	158.4	633.6	1267.2	NO PASS / NB		
4.102	5.595	7883.04		15766.1	15766.1	NO PASS / END PROJECT		
		CUD TOTAL	893.7	55508.7	59083.2			
		SUB-TOTAL	893.1	22208.1	23083.2			
OTE: ALI	_ PAVEMEN	T MARKINGS TO	MATCH EXISTING	. LOCATE BEFOR	E MILLING OR	RESURFACING.		



SUMMARY OF QUANTITIES SHEET 5 OF 6

	CONSTRUCTION SIGNS (VARIOUS ROUTES)							
SIGN		SIGN	AREA		TOTAL AREA			
NO.	SIGN	(in)	(sf)	QTY.	(sf)	DESCRIPTION		
1	G020-1	60 × 24	10.00	10	100.00	ROAD WORK NEXT 20 MILES		
2	W020-1	48 × 48	16.00	67	1072.00	ROAD WORK AHEAD		
7	W020-4	48 × 48	16.00	22	352.00	ONE LANE ROAD AHEAD		
8	W020-7a	48 × 48	16.00	67	1072.00	FLAGGER (SYMBOL) WITH FLAGS		
11	W03-4	48 × 48	16.00	47	752.00	BE PREPARED TO STOP		
26	G020-2	48 × 24	8.00	10	80.00	END ROAD WORK		
35	W08-12	48 × 48	16.00	62	992.00	NO CENTER LINE		
53	G020-4	36 × 18	4.5	5	22.50	PILOT CAR FOLLOW ME		
56	CONST-7	48 × 24	8.00	10	80.00	RATE OUR WORK ZONE		
57	W08-7a	36 × 36	9.00	112	1008.00	FRESH OIL LOOSE GRAVEL		
58	G020-8a	42 × 30	8.75	17	148.75	PILOT CAR IN USE WAIT & FOLLOW		
58	G020-8a	18 × 12	1.50	30	45.00	PILOT CAR IN USE WAIT & FOLLOW		
59	CONST-8	48 × 36	12.00	10	120.00	WORK ZONE NO PHONE ZONE		
	G022-1	21 x 15	2.19	4	8.76	WET PAINT (ARROW PIVOTS)		
					5853.01			
				TOTAL	5853			
616-10.0	5 - CONS	TRUCTIO	N SIGNS	·				

CONST	RUCTION ITE	MS (VARIOUS ROUTES)
ITEM NO.	QTY.	DESCRIPTION
6161025	275	CHANNELIZER (TRIM LINE)
6161098A	10	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6123000A	2	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)

- * IF LESS THAN TWO (2) MILES, DELETE SIGN NO. 1.
- ** ADDITIONAL SIGN NO. 2 USED AS SHOWN ON TRAFFIC CONTROL SHEET 4 OF 5 AND AS DIRECTED BY ENGINEER.
- *** FRESH OIL/LOOSE GRAVEL SIGN SHALL BE PLACED AT THE START OF THE PROJECT. SIGNS SHOULD ALSO BE INSTALLED WITHIN 150 FT. AFTER THE INTERSECTION OF A STATE ROUTE. ADDITION SIGNS MAY BE INSTALLED WITHIN 150 FT. AFTER OTHER INTERSECTIONS, AS DIRECTED BY ENGINEER.

NOTE:

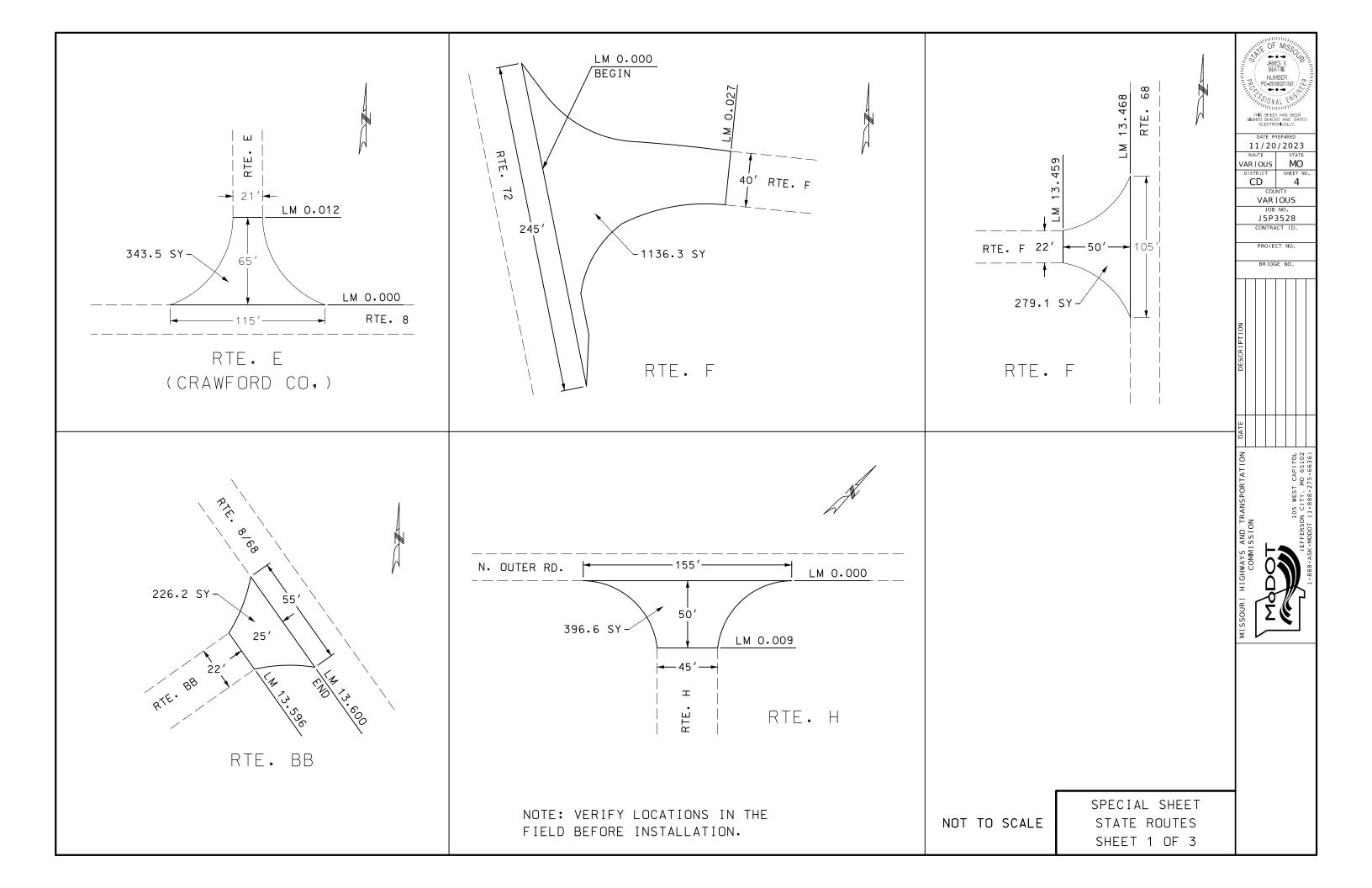
REFER TO STANDARD PLAN 616.10 AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.

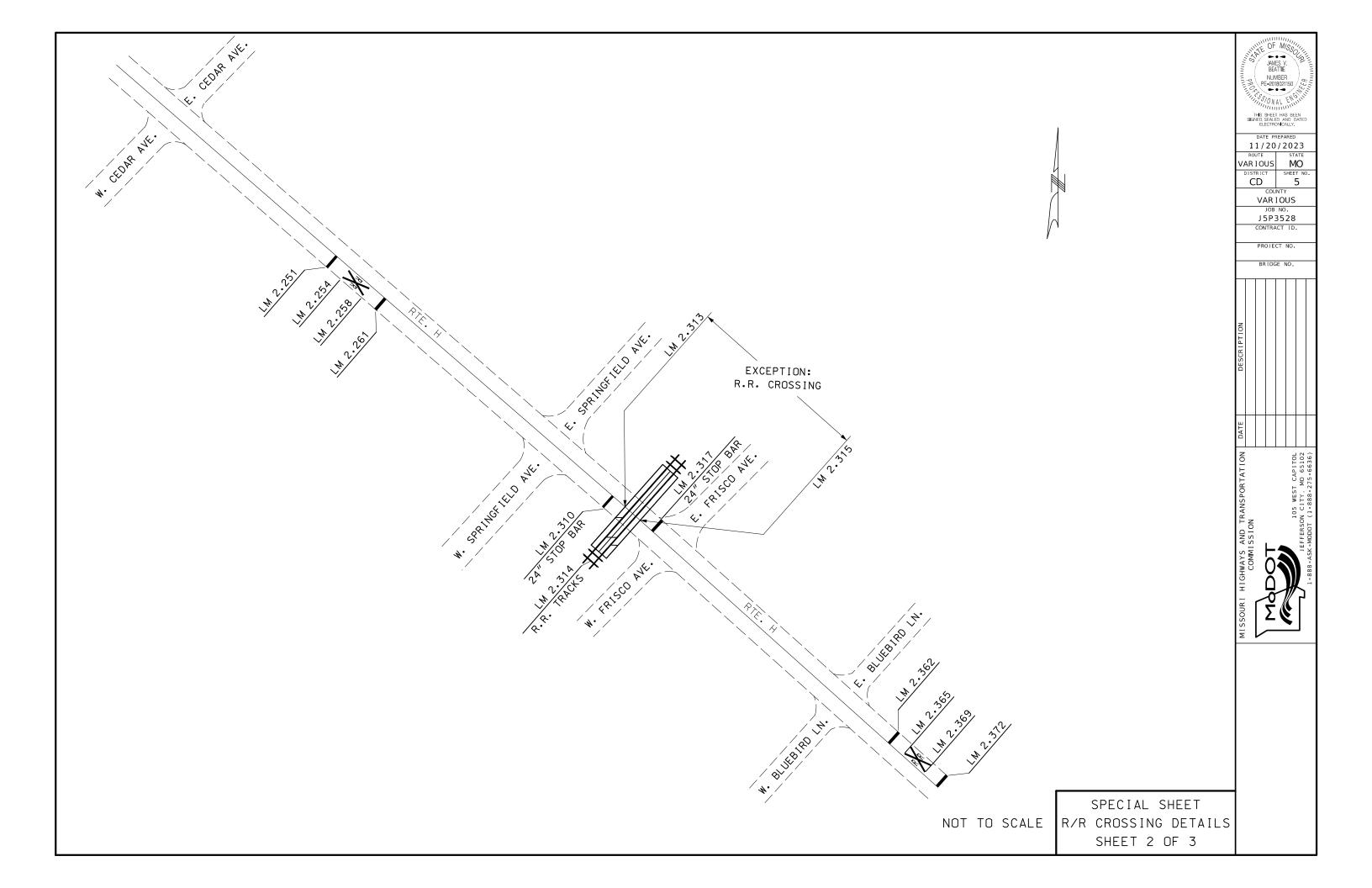
CONSTRUCTION SIGNS (BRIDGES)								
SIGN NO.	SIGN	SIGN (in)	AREA	QTY.	TOTAL AREA	DESCRIPTION		
2	W020-1	48 × 48	16.00	4	64.00	ROAD WORK AHEAD		
7	W020-4	48 × 48	16.00	4	64.00	ONE LANE ROAD AHEAD		
9	R10-6L	24 x 36	6.00	4	24.00	STOP HERE ON RED (45°ARROW)		
12	W03-3	48 × 48	16.00	4	64.00	SIGNAL AHEAD (SYMBOL)		
56	CONST-7	48 × 24	8.00	4	32.00	RATE OUR WORK ZONE		
59	CONST-8	48 × 36	12.00	4	48.00	WORK ZONE NO PHONE ZONE		
					296.00			
				TOTAL	296			
16-10.0	5 - CONS	TRUCTIO	N SIGNS					

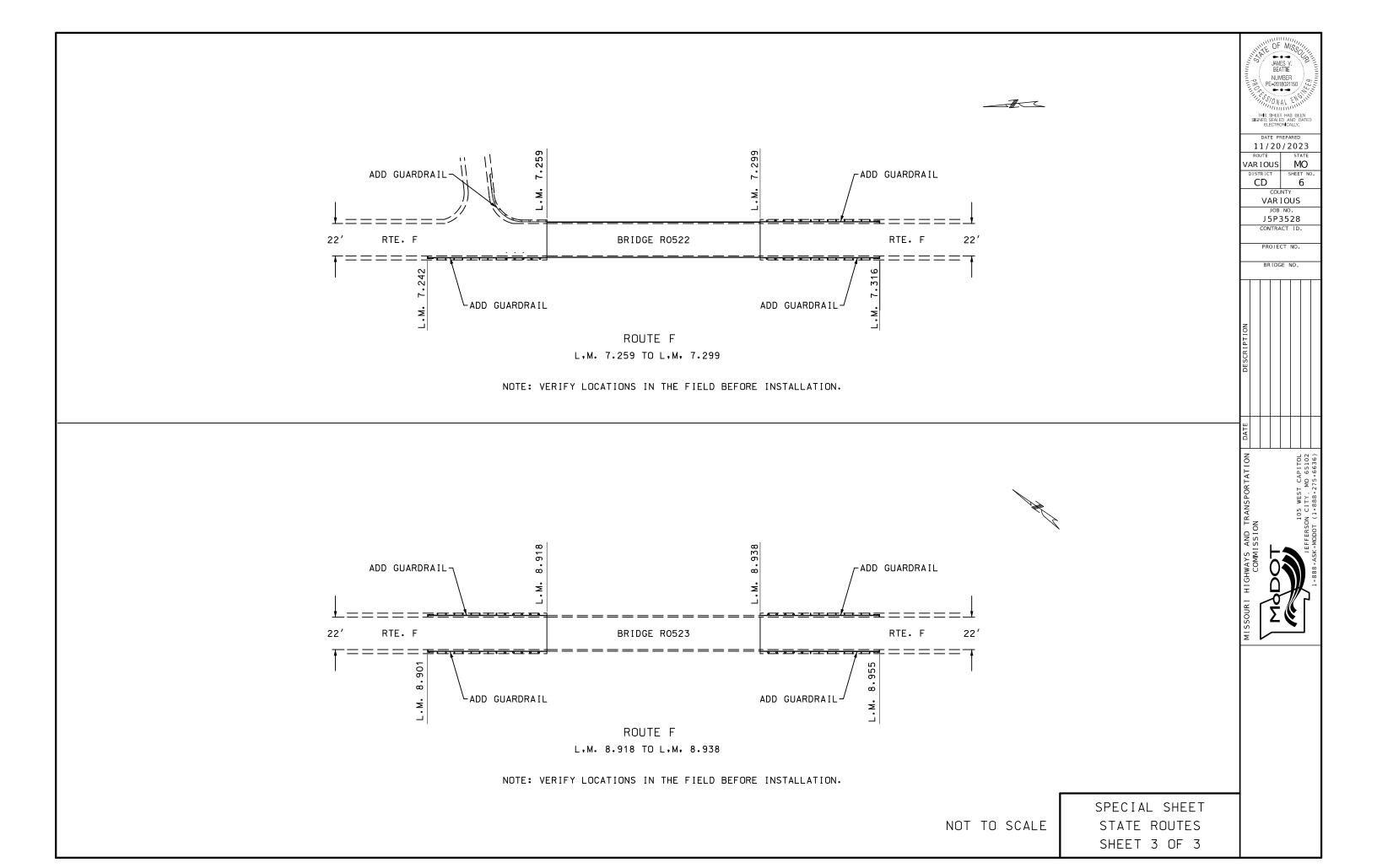
CONSTRUCTION ITEMS (BRIDGES)				
ITEM NO.	QTY.	DESCRIPTION		
6122012	4	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)		
6122020	4	REPLACEMENT SAND BARRELS		
6122030	4	IMPACT ATTENUATOR (RELOCATION)		
6161008	4	ADVANCED WARNING RAIL SYSTEM		
6161025	20	CHANNELIZER (TRIM LINE)		
6162000A	4	WORK ZONE TRAFFIC SIGNAL SYSTEM		
6162002	4	TEMPORARY LONG-TERM RUMBLE STRIPS		
6173600D	750	TEMPORARY TRAFFIC BARRIER.		
61736000	150	CONTRACTOR FURNISHED/RETAINED		
6175010A	750	RELOCATING TEMPORARY TRAFFIC BARRIER		
6205309	44	TEMP. REMOVABLE MARKING TAPE, 24" WHITE		
6207001	4494	PAVEMENT MARKING REMOVAL		
6208076	2900	4" TEMP. PAVEMENT MARKING PAINT		

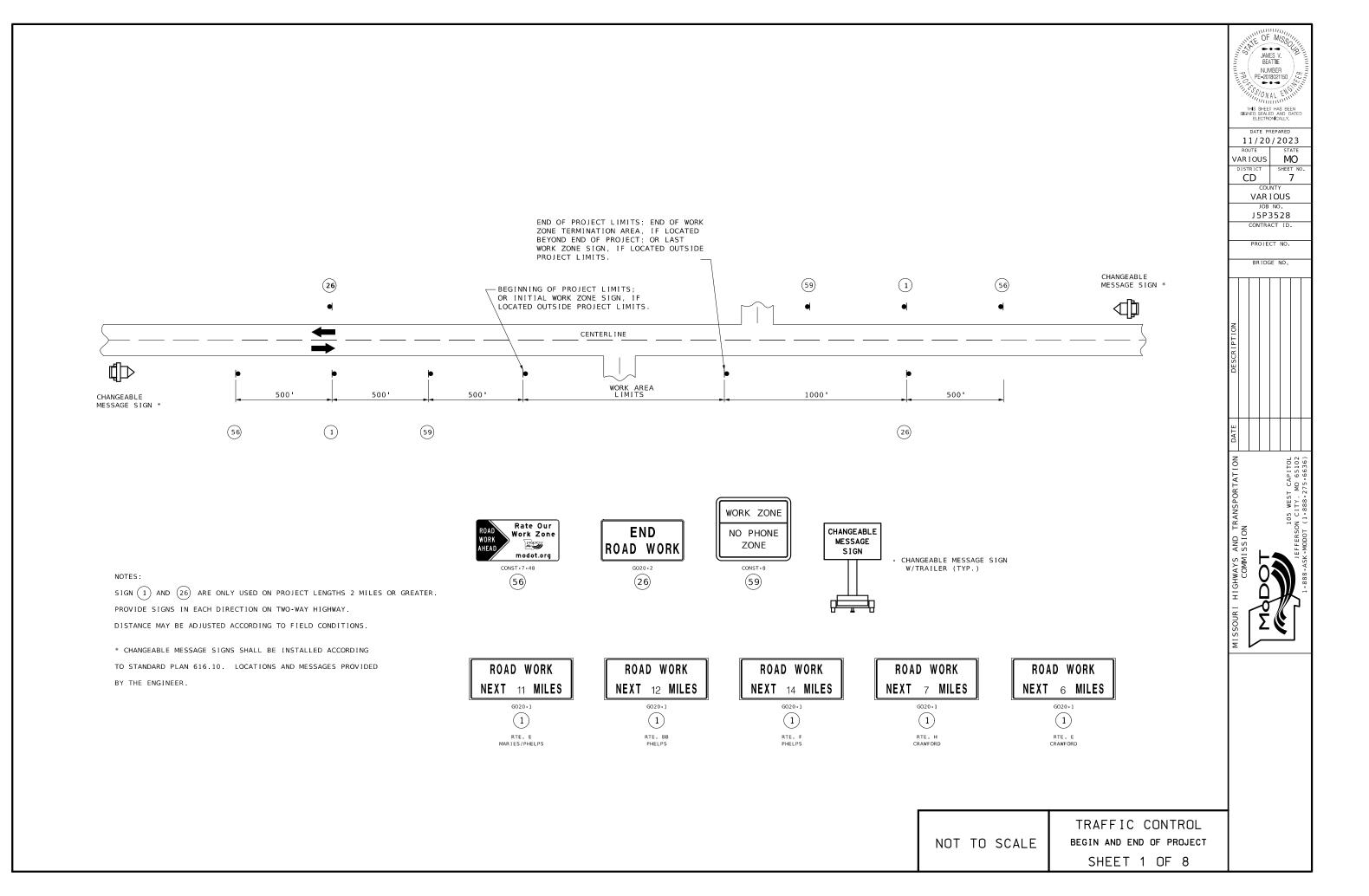
MOBILIZATION
1 LUMP SUM













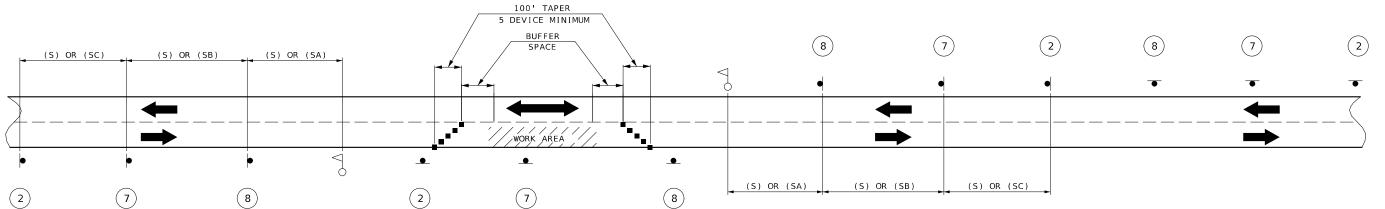


53

SIGN 53, 'PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.







SET 1 SET 2 SET 3 SET 4 INACTIVE **ACTIVE ACTIVE** INACTIVE

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

- CHANNELIZERS

- FLAGGER

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

SPEED		CING (FT.) 1)
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40 - 45	350	500
50-55	500	1000
60-70	1000	(SA) -1000 (SB) -1500 (SC) -2640

NIC	T	- E	c

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

PERMANENT POSTED	BUFFER SPACE
SPEED LIMIT	LENGTH
(MPH)	(FT)
0 - 35	280
40 - 45	400
50 - 55	560
60 - 70	840

JAMES V. BEATTIE NUMBER PE-2018021150

11/20/2023 VARIOUS MO SHEET NO CD 8

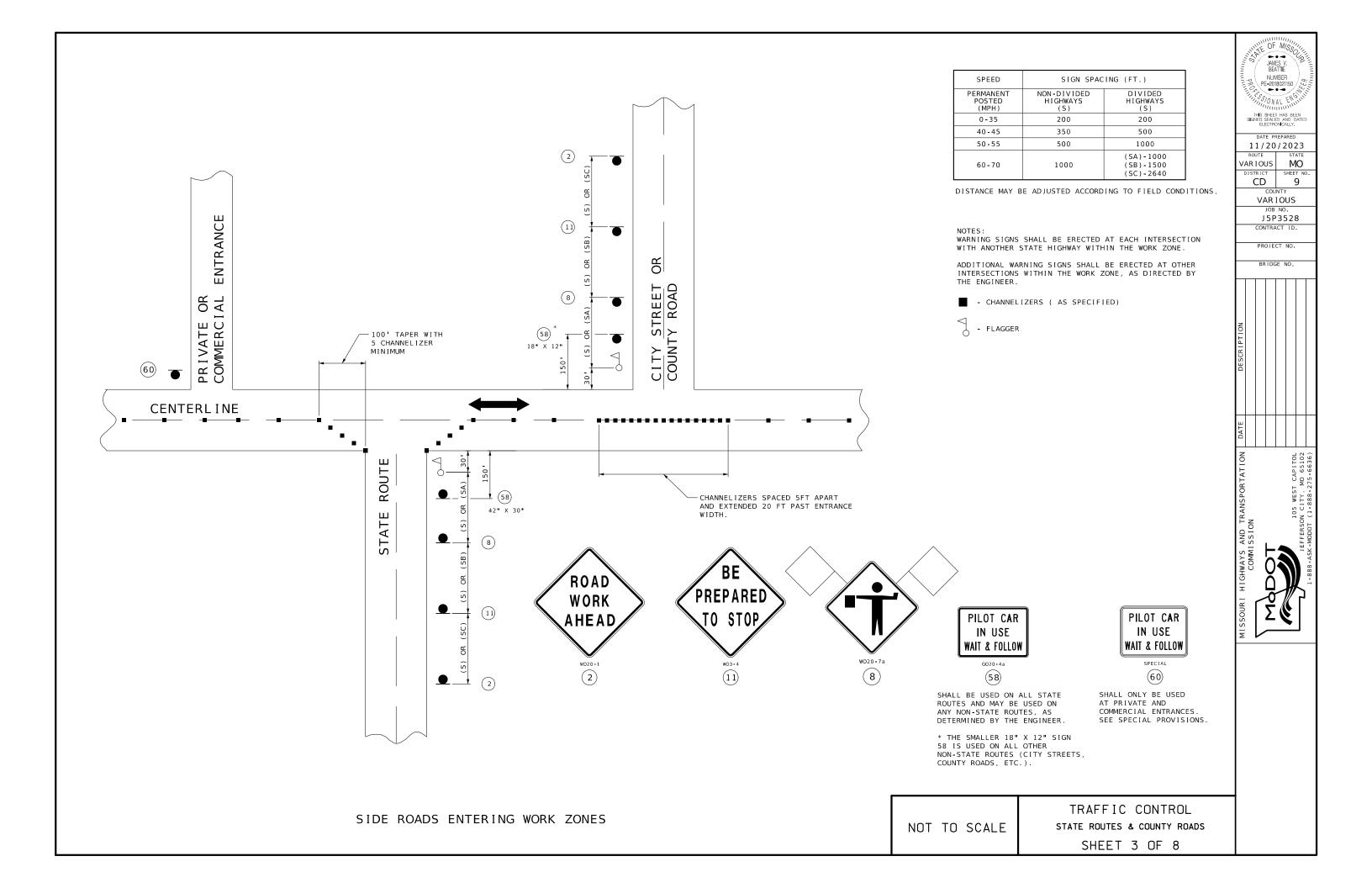
VARIOUS J5P3528 CONTRACT ID.

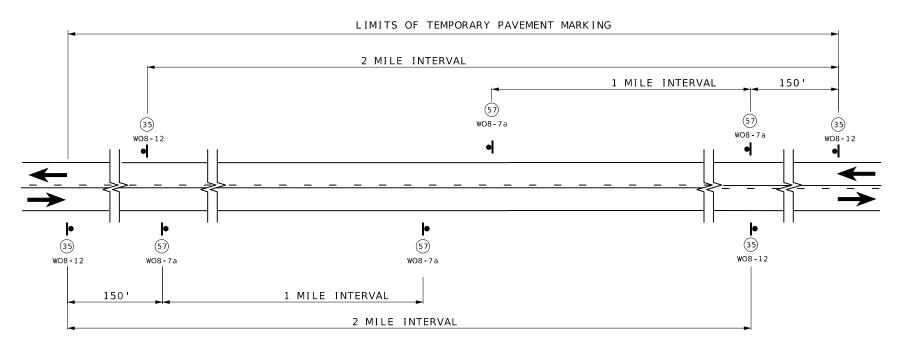
PROJECT NO.

BRIDGE NO.

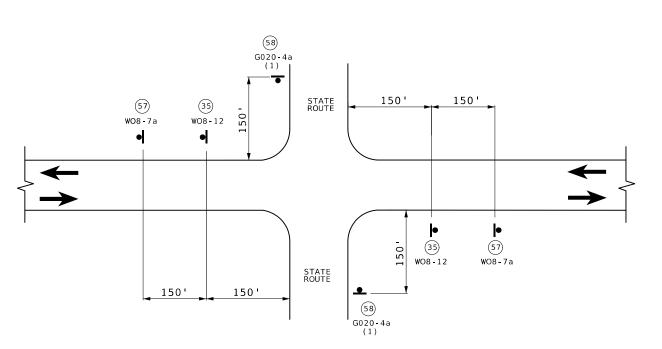
NOT TO SCALE

TRAFFIC CONTROL SEAL COAT AGGREGATE APPLICATION SHEET 2 OF 8





SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS SHOWING TEMPORARY STRIPING FOR MAINLINE

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.





wo8 - 7 a

NOTES:

PILOT CAR

IN USE

WAIT & FOLLOW

GO20-4a

58

SIGN 35 AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN 35 IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN 35 , THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN $616.10\,$ AND $903.03.\,$

NOT TO SCALE

TRAFFIC CONTROL

NO CENTER LINE/FRESH OIL/LOOSE GRAVEL

SHEET 4 OF 8



ELECTRONICALET,			
DATE PREPARED			
11/20	/2023		
ROUTE	STATE		
VARIOUS	MO		
DISTRICT	SHEET NO.		
CD	10		
COUNTY			
VAR I OUS			
JOB NO.			
J5P3528			
CONTRA	CT ID.		

PROJECT	NO.

	BR	IDG	E N	10.	

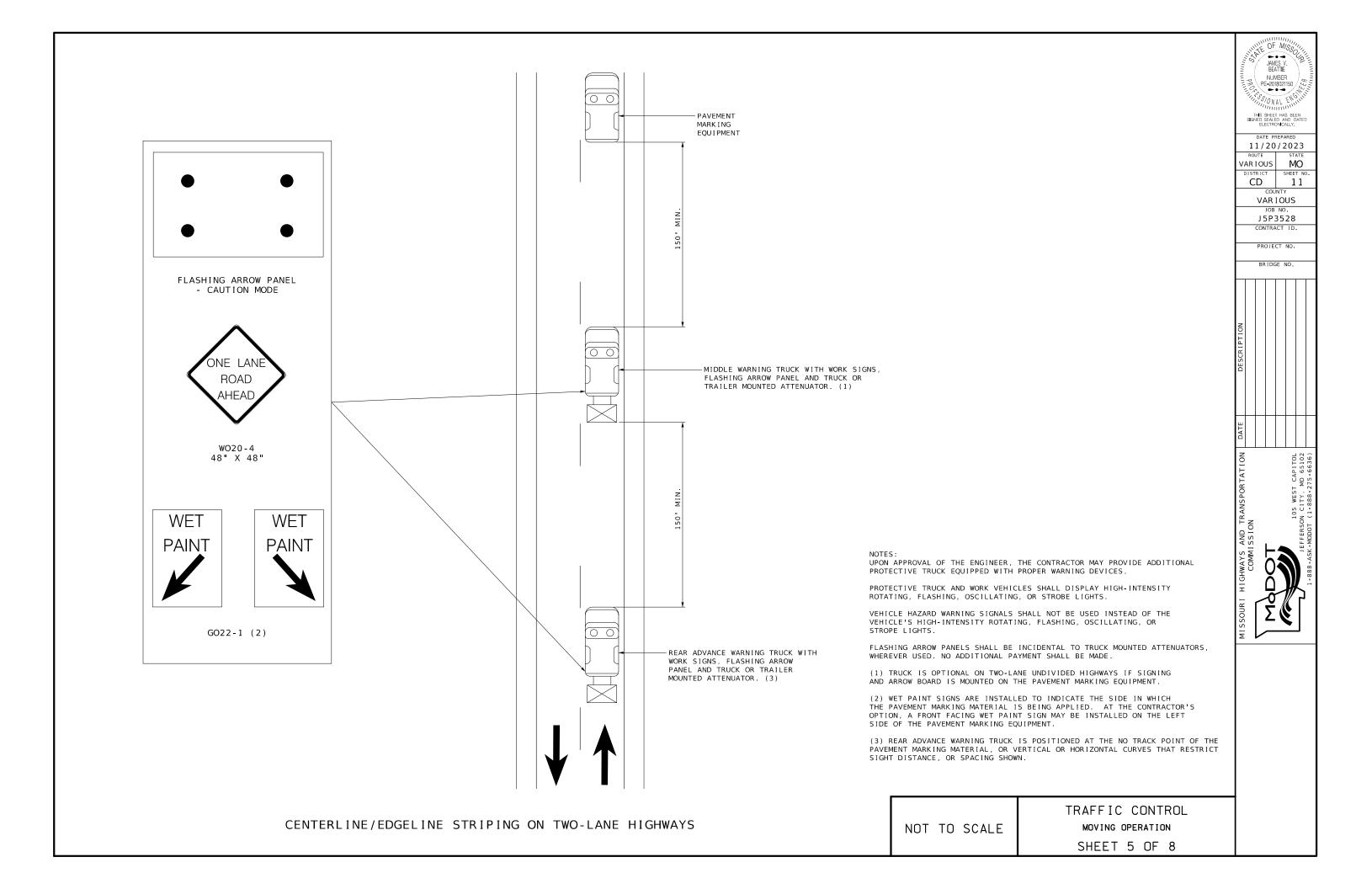


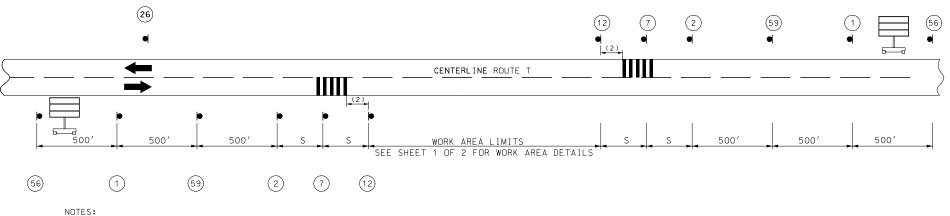
SOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MODOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)





TRAFFIC CONTROL LEGEND

CHANGEABLE MESSAGE BOARD

SIGN (SINGLE SIDED) CHANNEL I ZERS FLAGGER

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

LONG-TERM RUMBLE STRIPS		
STANCE SPACING	DISTANCE (2)	SPEED MPH
20 FT 10-12 FT	120 FT	0-45 (OPTIONAL)
60 FT 10-12 FT	160 FT	50-55
00 FT 10-12 FT	200 FT	60-70
(3)	(3)	



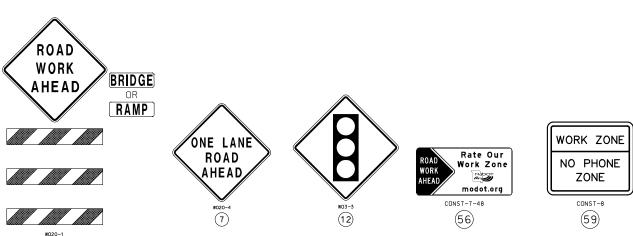
LONG-TERM RUMBLE STRIPS

SPEED	SIGN SPACING (FT.) (1)		
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	
0-35	200	200	
40-45	350	500	
50-55	500	1000	

NOTES:

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.



GENERAL NOTES

2

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

NOT TO SCALE

TRAFFIC CONTROL PLAN BRIDGE LANE CLOSURES SHEET 6 OF 8

JAMES V.
BEATTIE

NUMBER PE-2018021150

11/20/2023

VARIOUS

JOB NO.

J5P3528 CONTRACT ID.

PROJECT NO.

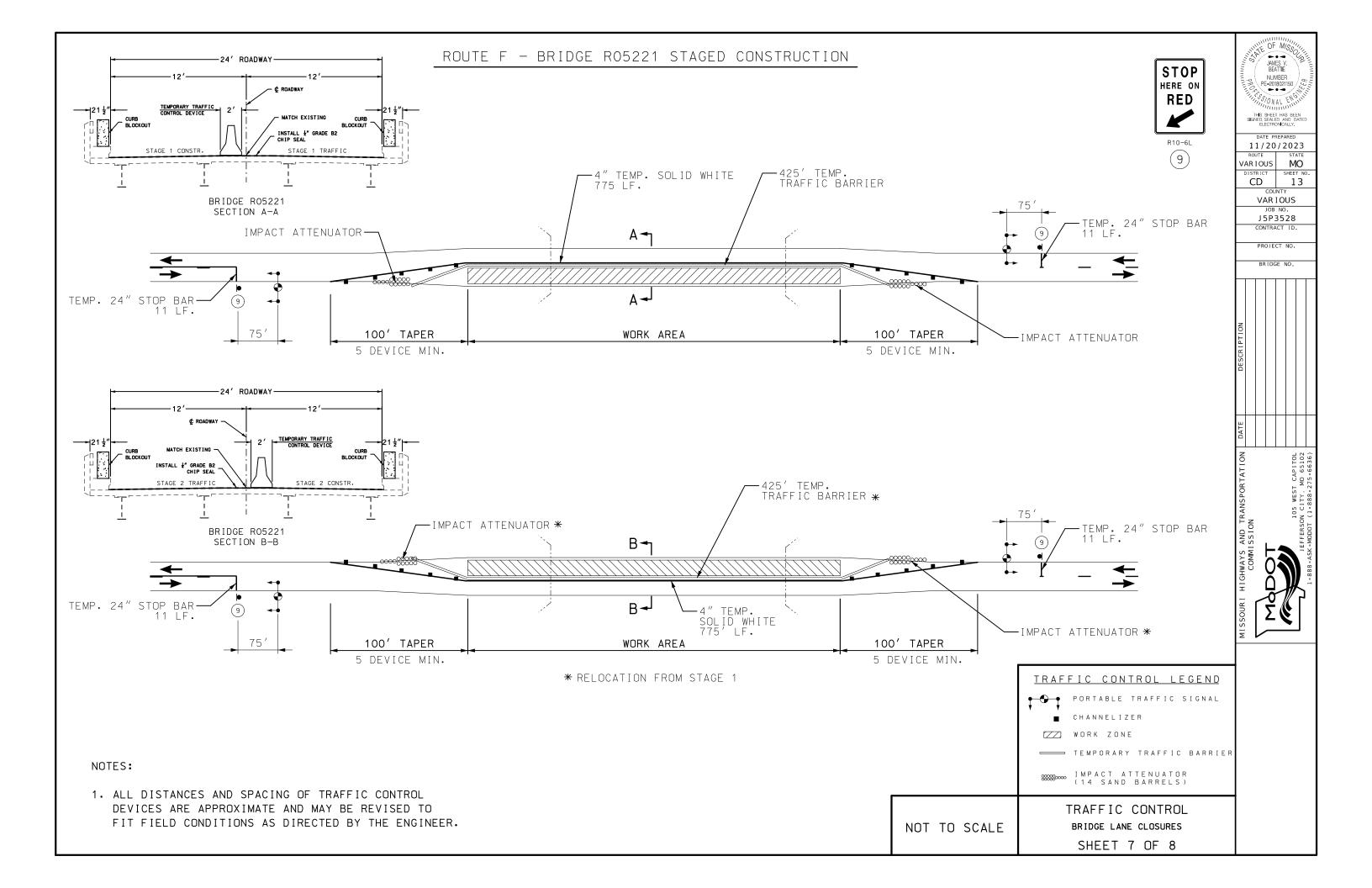
BRIDGE NO.

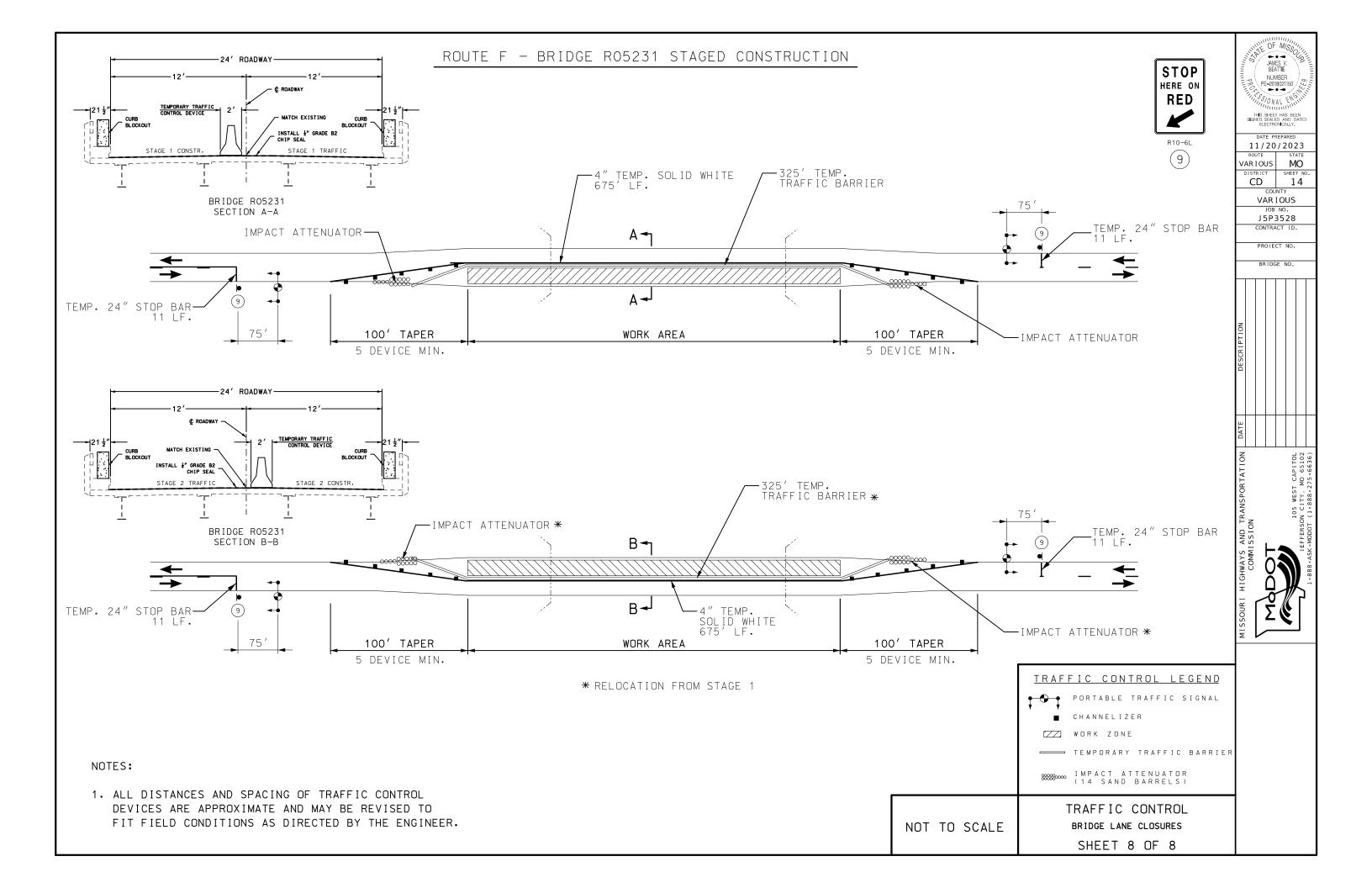
MO

12

VARIOUS

CD





TED S. KOESTER NUMBER PE-2013000591 IN SONAL EX

8/10/2023

PHELPS

J5P3528 CONTRACT ID.

PROJECT NO.

BRIDGE NO R05221

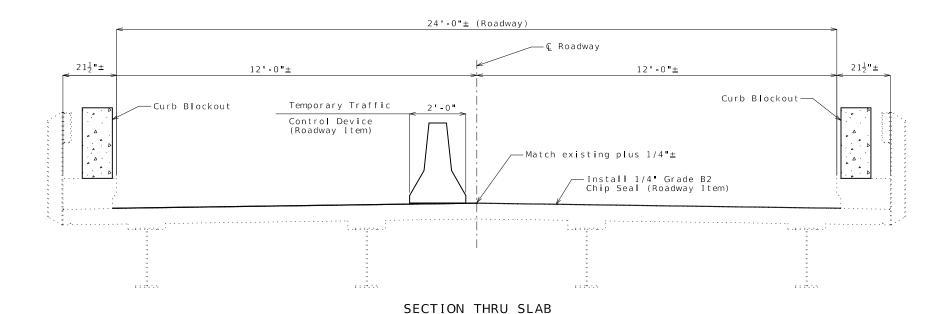
MO SHEET NO

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BR

U.I.P. AND REHABILITATE EXISTING (45'-58'-58'-45') CONT. I-BEAM SPANS (COMPOSITE)



General Notes:

Design Specicfications: 2002 AASHTO LFD (17th Ed.) Standard Specifications with 2008 Interim Revisions Bridge Deck Rating = 3

Design Loading: H15-44 (One Lane)

Design Unit Stresses: Class B-1 Concrete (Curb Blockout) Reinforcing Steel (Grade 60) f'c = 4,000 psify = 60,000 psi

Miscellaneous:

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines, Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material

Roadway surfacing adjacent to bridge apporach slab ends to match top of bridge approach slab (Roadway Item)

Traffic Handling: Traffic to be maintained on structure during contruction. See roadway plans for traffic control.

Estimated Quantities	
I t em	Total
Curb Blockout linear foot	414

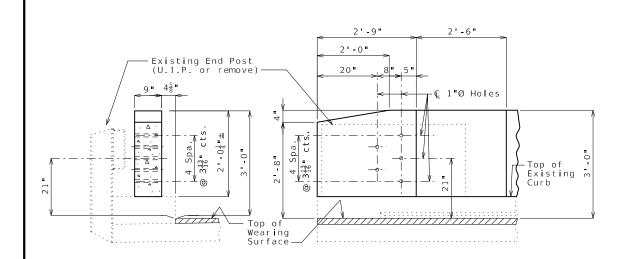
REPAIRS TO BRIDGE: ROUTE F OVER NORMAN CREEK

ROUTE F FROM ROUTE 72 TO ROUTE 68 ABOUT 7.2 MILES EAST OF ROUTE 72 BEGINNING STATION $387+20.00\pm$ (MATCH EXISTING)

Detailed June 2023

PART SECTION THRU

END OF BLOCKOUT



PART ELEVATION SHOWING

END OF BLOCKOUT

3/4"Ø Resin Anchor
System B (Outside face)

Bend top
bars in field

Bend top
bars in field

3/4"Ø Resin Anchor
System B (Rdwy. face)

Bend top
bars in field

3/4"Ø Resin Anchor
System B (Rdwy. face)

Roadway face of curb blockout

Style of curb blockout

Style of curb blockout

Style of curb blockout

A style of curb blockout

Style of curb blockout

Style of curb blockout

A style of curb blockout

Style of curb blockout

A style of curb blockout

Style of curb blockout

A style of curb blockout

Style of curb blockout

Style of curb blockout

A style of curb blockout

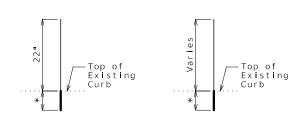
A style of curb blockout

A style of curb blockout

Style of

PART ELEVATION OF END OF BLOCKOUT SHOWING REINFORCEMENT

ELEVATION B-B



System A (496 required) System B (24 required)

DETAILS OF RESIN ANCHORS

* Manufacturer's recommended embedment length (5" min.)

Notes:

Work this sheet with Sheets No. 2 & 4.

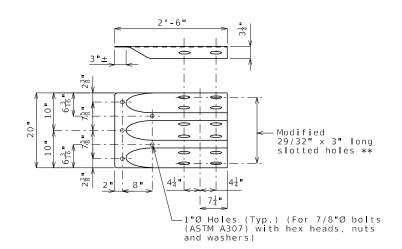
All curb blockout reinforcement shall be epoxy coated.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 inches.

An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the 3/4-inch diameter threaded rod.

Resin anchors shall be shifted or bent in field to clear one-inch diameter holes by at least 1/2 inch.



** Tighten bolts, back off 1/2 turn and burr threads Allow for sliding between Modified Bridge Anchor Section (Thrie Beam) and End Post.

MODIFIED TERMINAL CONNECTION AT ABUTMENTS (ROADWAY ITEM)

COMMISSION COMMISSION TO DO T 1.888-ASK-WODOT (1.888)

TED S. KOESTER

NUMBER PE-2013000591

SONAL E

8/10/2023

PHELPS

J5P3528

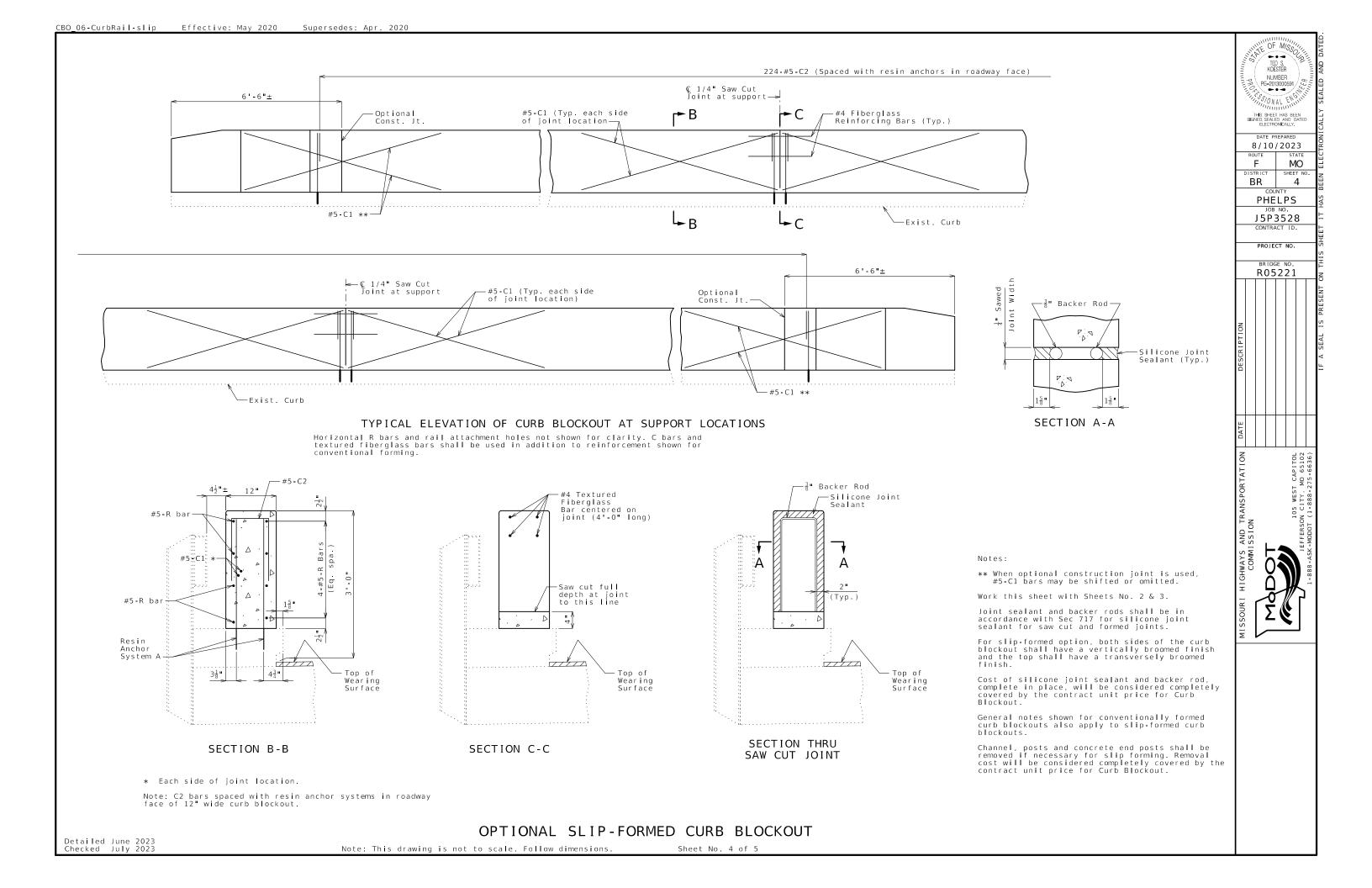
PROJECT NO.

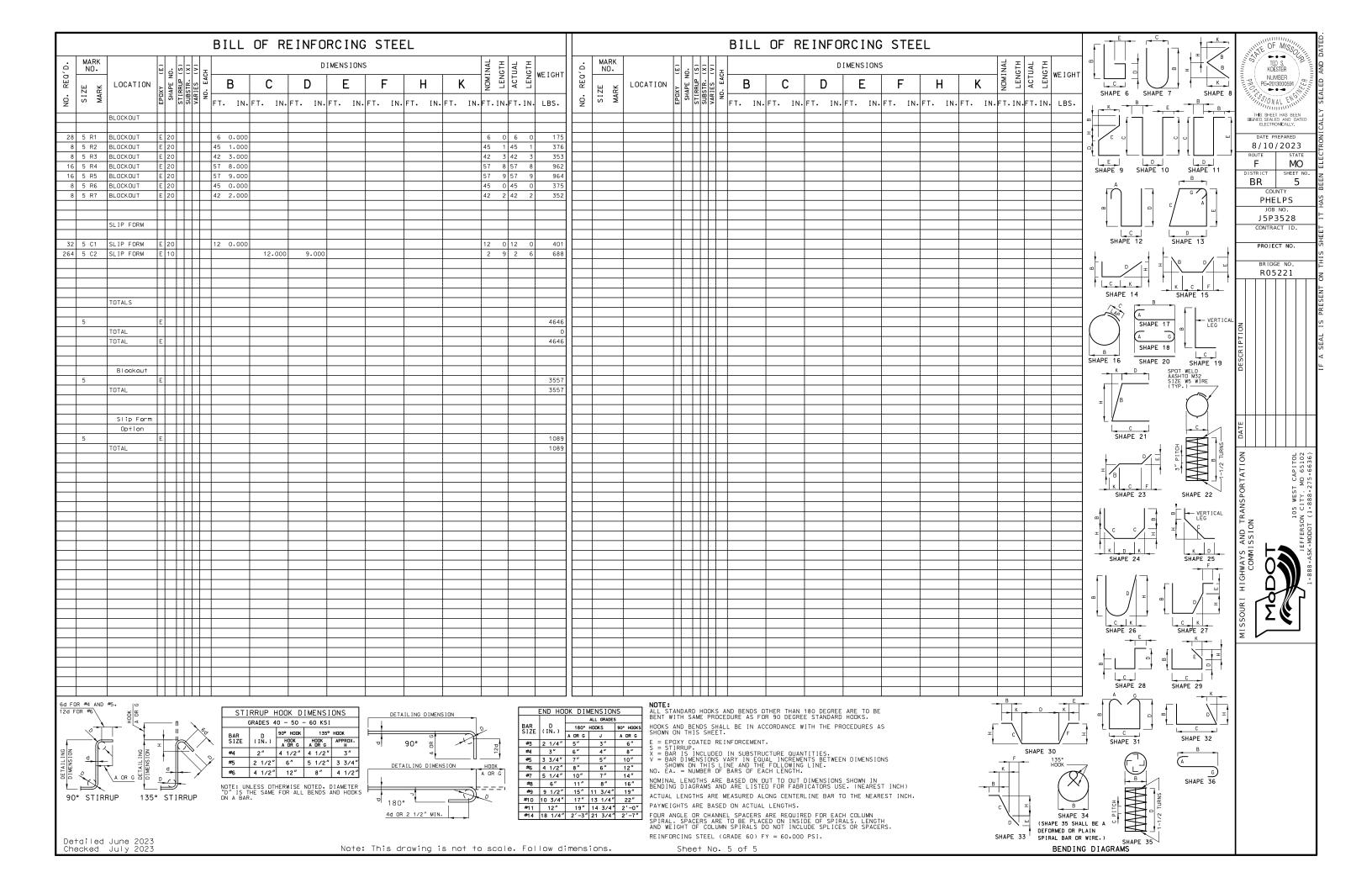
R05221

MO SHEET NO

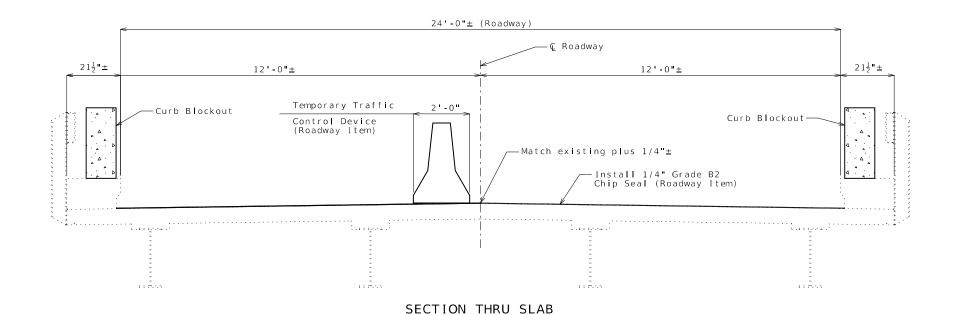
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BR





U.I.P. AND REHABILITATE EXISTING (33')(33')(33') SIMPLE I-BEAM SPANS (COMPOSITE)



General Notes:

Design Specicfications: 2002 AASHTO LFD (17th Ed.) Standard Specifications with 2008 Interim Revisions Bridge Deck Rating = 4

Design Loading: H15-44 (One Lane)

Design Unit Stresses:
Class B-1 Concrete (Curb Blockout) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Miscellaneous: All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines, Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material

Roadway surfacing adjacent to bridge apporach slab ends to match top of bridge approach slab (Roadway Item)

Traffic Handling: Traffic to be maintained on structure during contruction. See roadway plans for traffic control.

Estimated Quantities	
I t em	Total
Curb Blockout linear foot	203

REPAIRS TO BRIDGE:
ROUTE F OVER EARLE CREEK
ROUTE F FROM ROUTE 72 TO ROUTE 68
ABOUT 9.0 MILES SOUTH OF ROUTE 72
BEGINNING STATION 483+28.00± (MATCH EXISTING)

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ROUTE STATE MO
DISTRICT SHEET NO.
BR 1

COUNTY
PHELPS
JOB NO.
J5P3528

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
R05231

COMMISSION
COMMISSION
COMMISSION

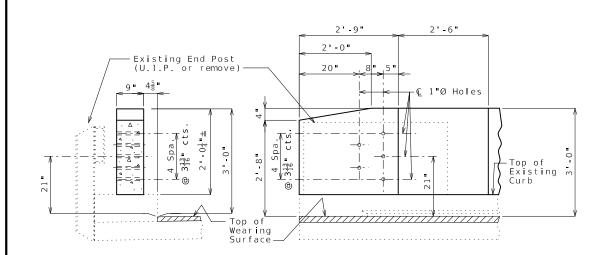
MODOT

105 WEST CAPITOL

LEFFERSON CITY, MO 65102

PART SECTION THRU

END OF BLOCKOUT



PART ELEVATION SHOWING

END OF BLOCKOUT

3/4 "Ø Resin Anchor System B (Outside face)

Bend top bars in field

Bend top bars in field

3/4 "Ø Resin Anchor System B (Rdwy. face)

Bend top bars in field

3/4 "Ø Resin Anchor System B (Rdwy. face)

Roadway face of curb blockout

State of curb blockout

A blockout

TED S. KOESTER

NUMBER PE-2013000591

SONAL E

8/10/2023

PHELPS

J5P3528

PROJECT NO.

BRIDGE NO

R05231

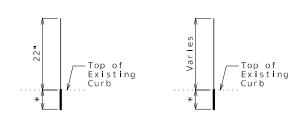
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PART ELEVATION OF END OF BLOCKOUT SHOWING REINFORCEMENT

ELEVATION B-B



System A (250 required) System B (24 required)

DETAILS OF RESIN ANCHORS

* Manufacturer's recommended embedment length (5" min.)

Notes:

Work this sheet with Sheets No. 2 & 4.

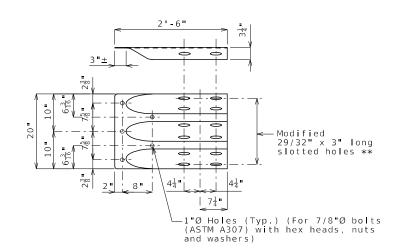
All curb blockout reinforcement shall be epoxy coated.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 inches.

An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the 3/4-inch diameter threaded rod.

Resin anchors shall be shifted or bent in field to clear one-inch diameter holes by at least 1/2 inch.



** Tighten bolts, back off 1/2 turn and burr threads Allow for sliding between Modified Bridge Anchor Section (Thrie Beam) and End Post.

MODIFIED TERMINAL CONNECTION AT ABUTMENTS (ROADWAY ITEM)

CURB BLOCKOUT

Detailed June 2023 Checked July 2023

